

Enhancing EPA Region 4's Emission Inventory for Air Toxics



**Egide Louis, Ph.D
US EPA Region 4
Atlanta, GA**

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- WHY did we do this?
- WHAT did we do to begin to address the issue?
- WHERE do we go from here?



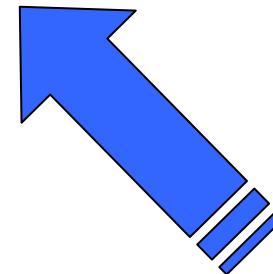
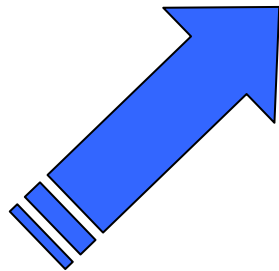
WHY Did We Do This?

- The air toxics National Emissions Inventory (NEI) provides critical information for the development and assessment of the national air toxics management program and evaluating local exposure scenarios
- The air toxics NEI is currently a voluntarily submitted compilation of information from SLT air agencies, supplemented by EPA-generated data
- NEI users need data which are reported consistently and accurately from place to place, and with consistent QA/QC protocols

WHY Did We Do This?

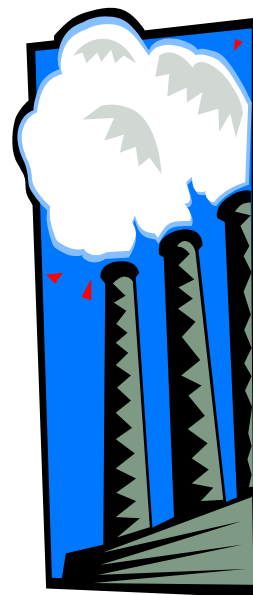
- **There are two ways to enhance the inventory**
 - Make it mandatory

- Work with State, local, and tribal air agencies (SLTs) on voluntary, collaborative approaches to enhance the quality of the inventory



WHAT did we do to begin to address the issue?

- **Formed an EPA/SLT workgroup (Dec 2007) to evaluate the status of the Region's air toxics NEI & develop a strategy to enhance the inventory**
 - What/when/how do SLTs currently report? (Completed)
 - What are the most critical changes needed to increase consistency and quality of Region 4 submissions? (Ongoing)
 - What is the suggested path forward to achieve these changes over time? (Report out to R4 SLT Air Directors at their September 2009 meeting)



WHAT did we do to begin to address the issue?

- December 2007: Convened R4 SLT air toxics inventory contacts to form a Workgroup
- March 2008: Workgroup members designed and administered a set of questions to evaluate the status of their current inventory process
- May – July 2008: Analyzed results
- August/September 2008: Developed recommendations

NEI Questions

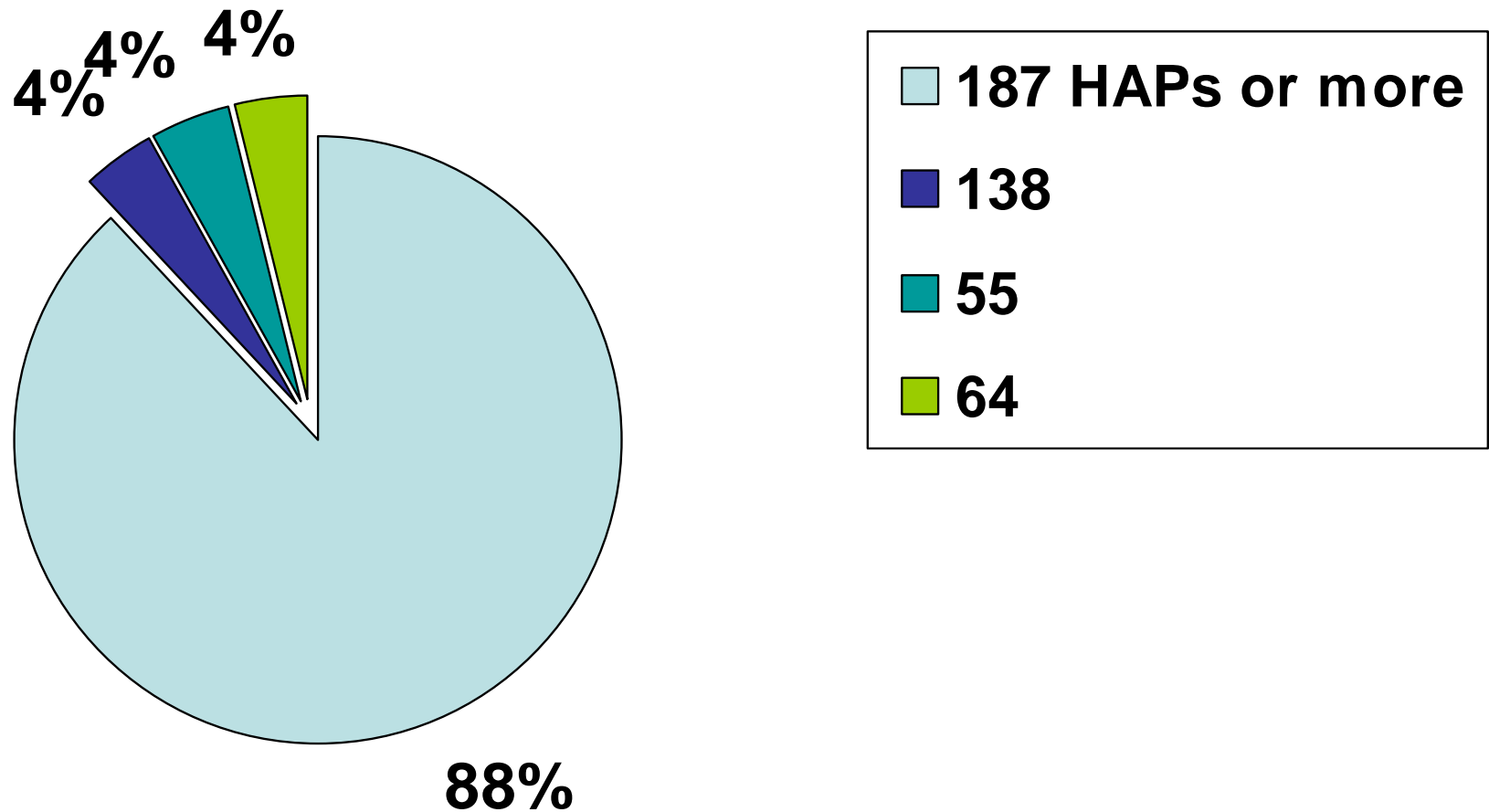
- 1. How many Air Toxics do you report to NEI?**
- 2. What types of emissions are reported in HAP inventory?**
- 3. What categories of sources are covered in your report?**
- 4. What are your thresholds for reporting?**
- 5. How Often do you collect/develop emissions data?**
- 6. When do you submit your air toxics NEI report to EPA?**
- 7. Is there a S/L regulation that requires you to collect and/or submit this data?**
- 8. Will you be collecting HAP emissions in 2008?**
- 9. Will you be collecting/updating and reporting HAP emissions data every year after 2008?**

Results....

- Total number SLT participating: **25**
 - Responses to NEI Questions: **25**
 - SLTs Presently Reporting to NEI: **24**
 - SLTs Not Reporting to NEI: **1**

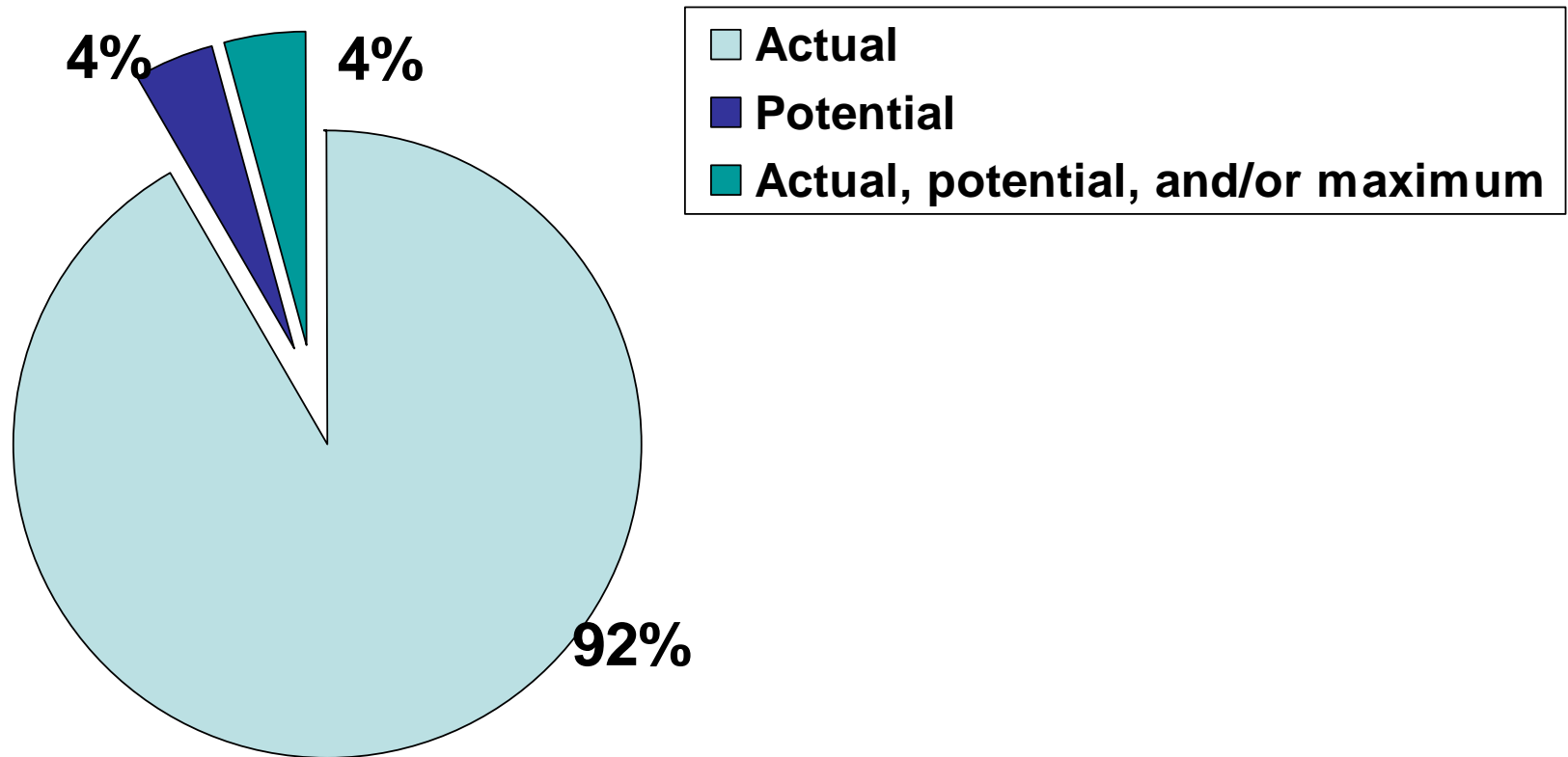
Note: 8 local air programs have their emissions reported by their respective States

1. How many Air Toxics do you report to NEI?



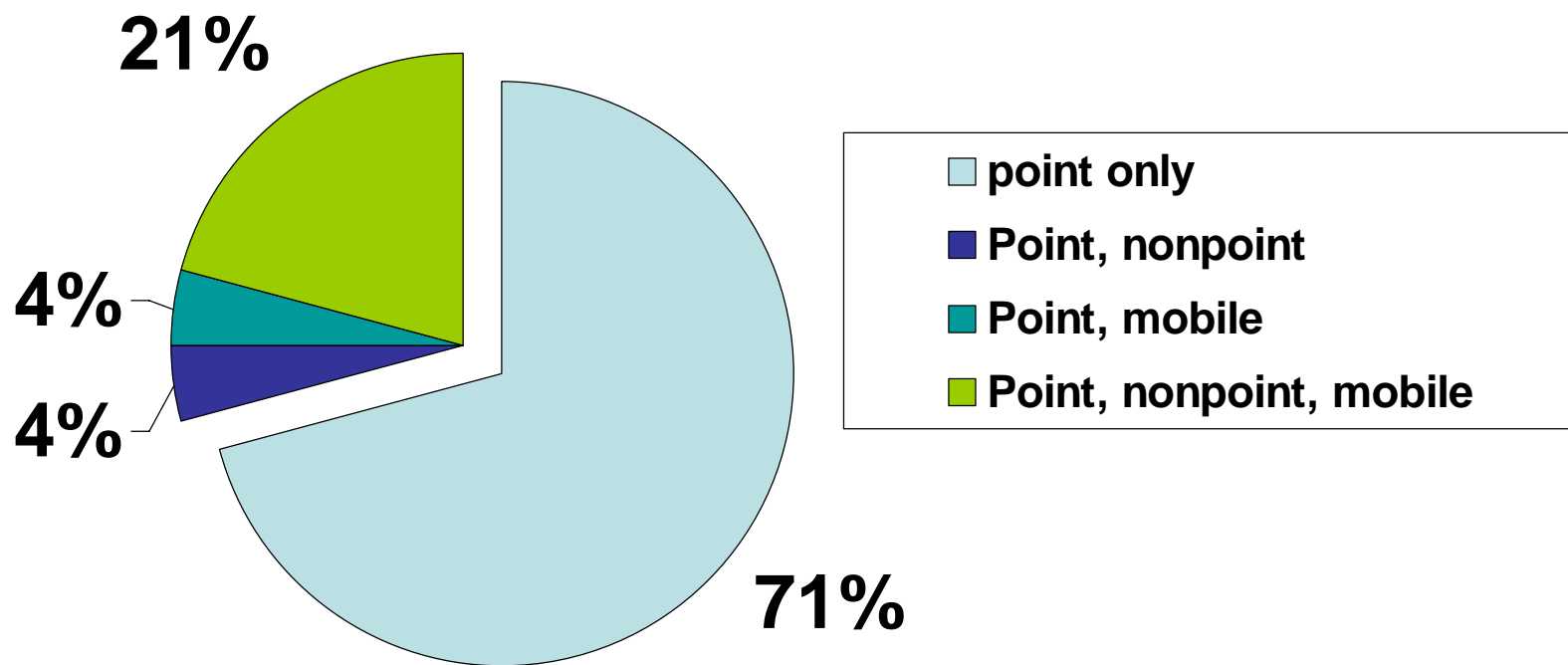
# of HAPs	187+	138	64	55
# of S/Ls reporting	21	1	1	1

2. What types of emissions are reported in your HAP inventory?



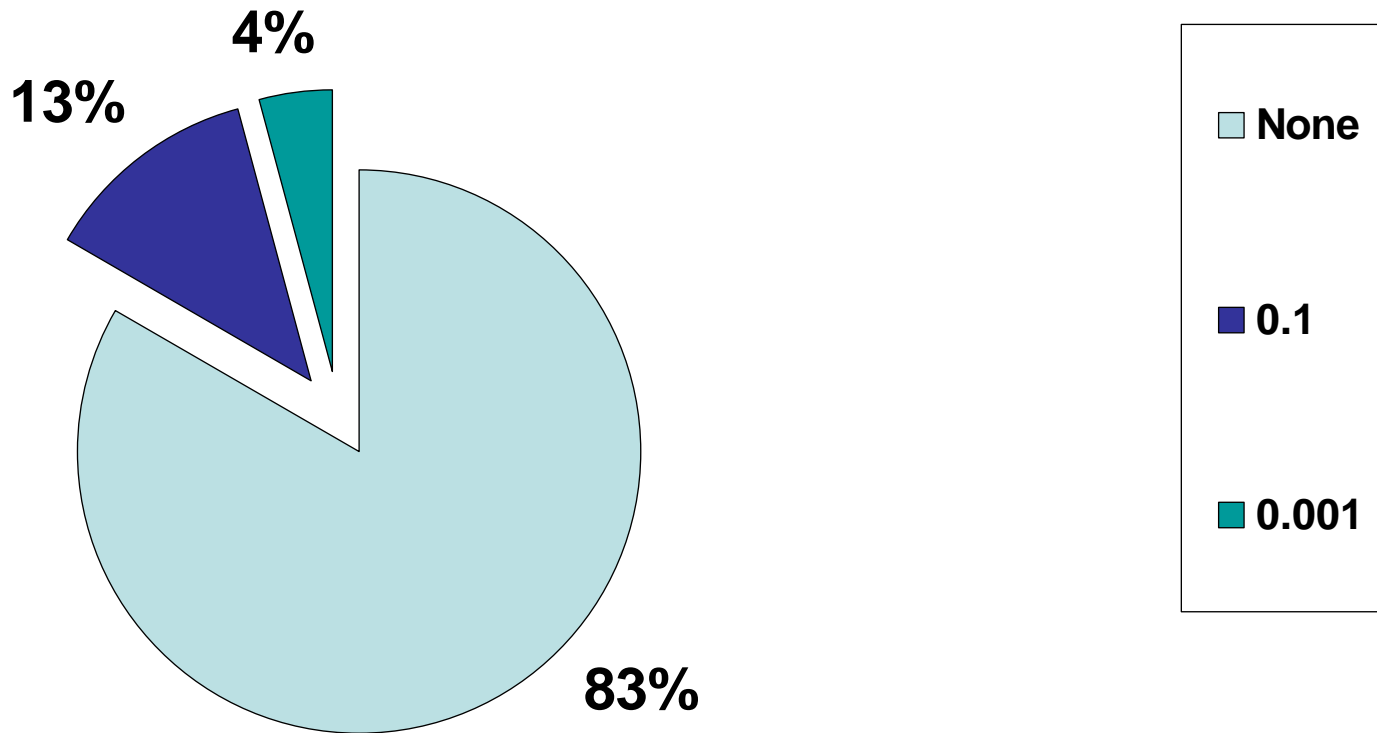
Type of emissions	Actual	Potential	Actual, potential, maximum
# of S/Ls reporting	22	1	1

3. What categories of sources are covered in your report?



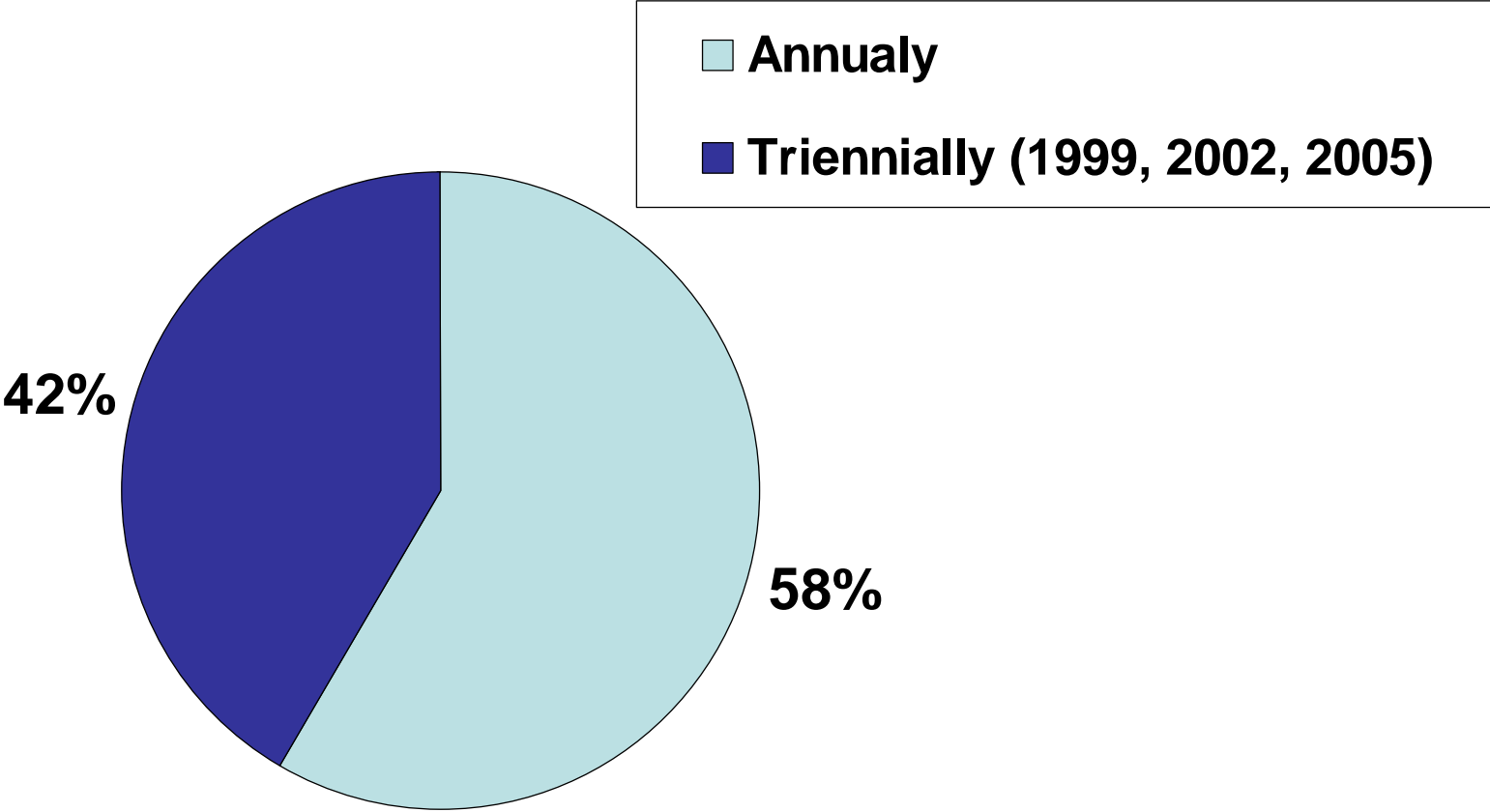
HAP Categories	Point only	Point, nonpoint	Point, mobile	Point, nonpoint, mobile
# of S/Ls reporting	17	1	1	5

4. What are your thresholds for reporting?



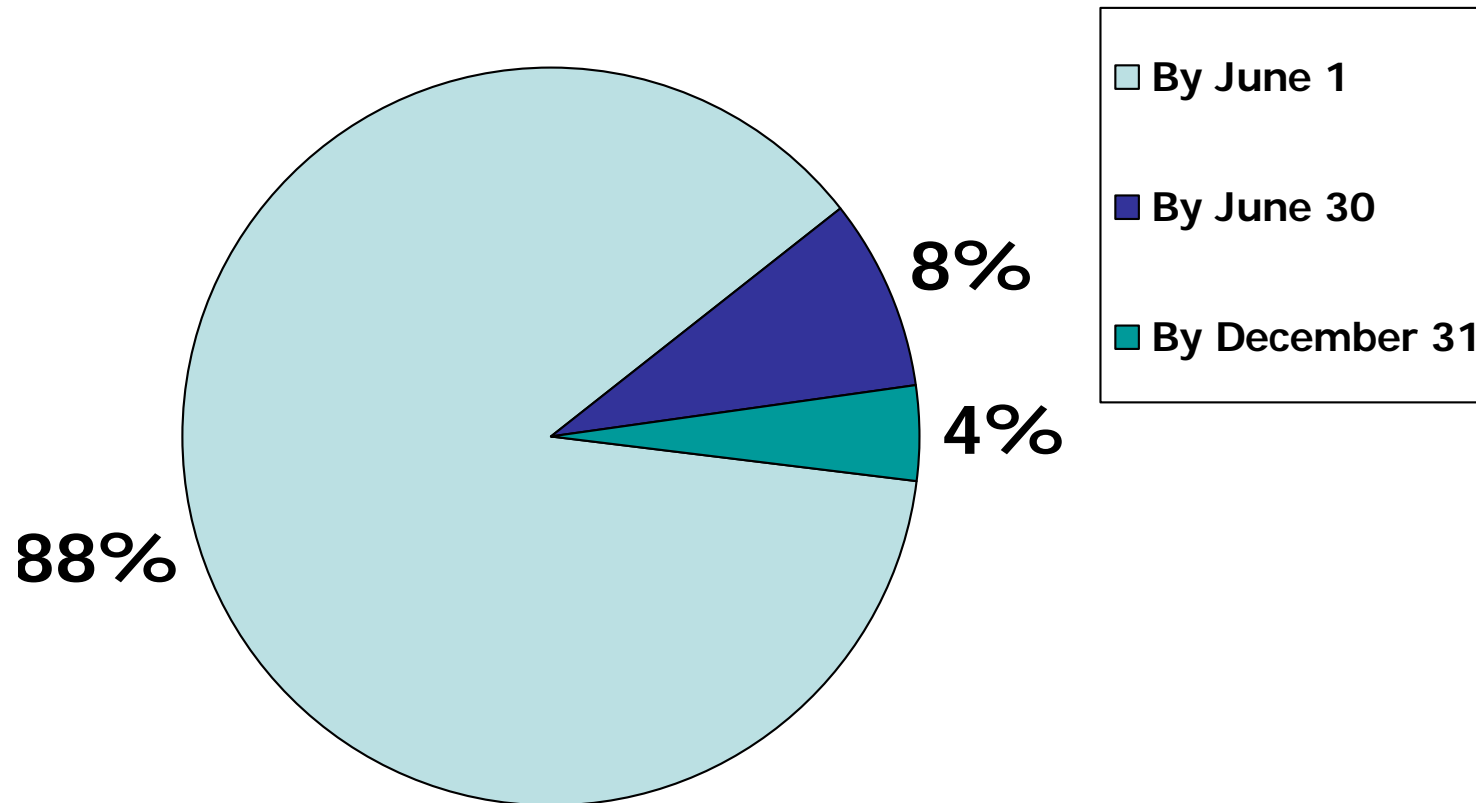
Threshold for reporting (tons)	None	0.1	0.001
# of S/Ls reporting	20	3	1

5. How often do you collect/update emissions data?



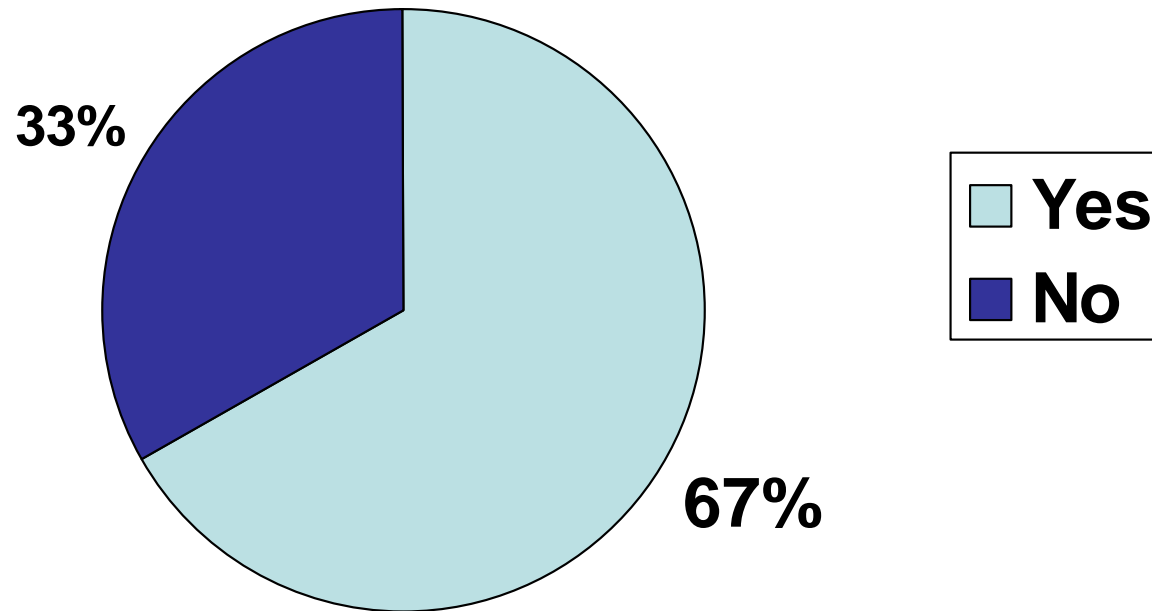
How often data is collected/updated	Annually	Triennially
# of S/Ls reporting	14	10

6. When do you submit your air toxics NEI report to EPA?



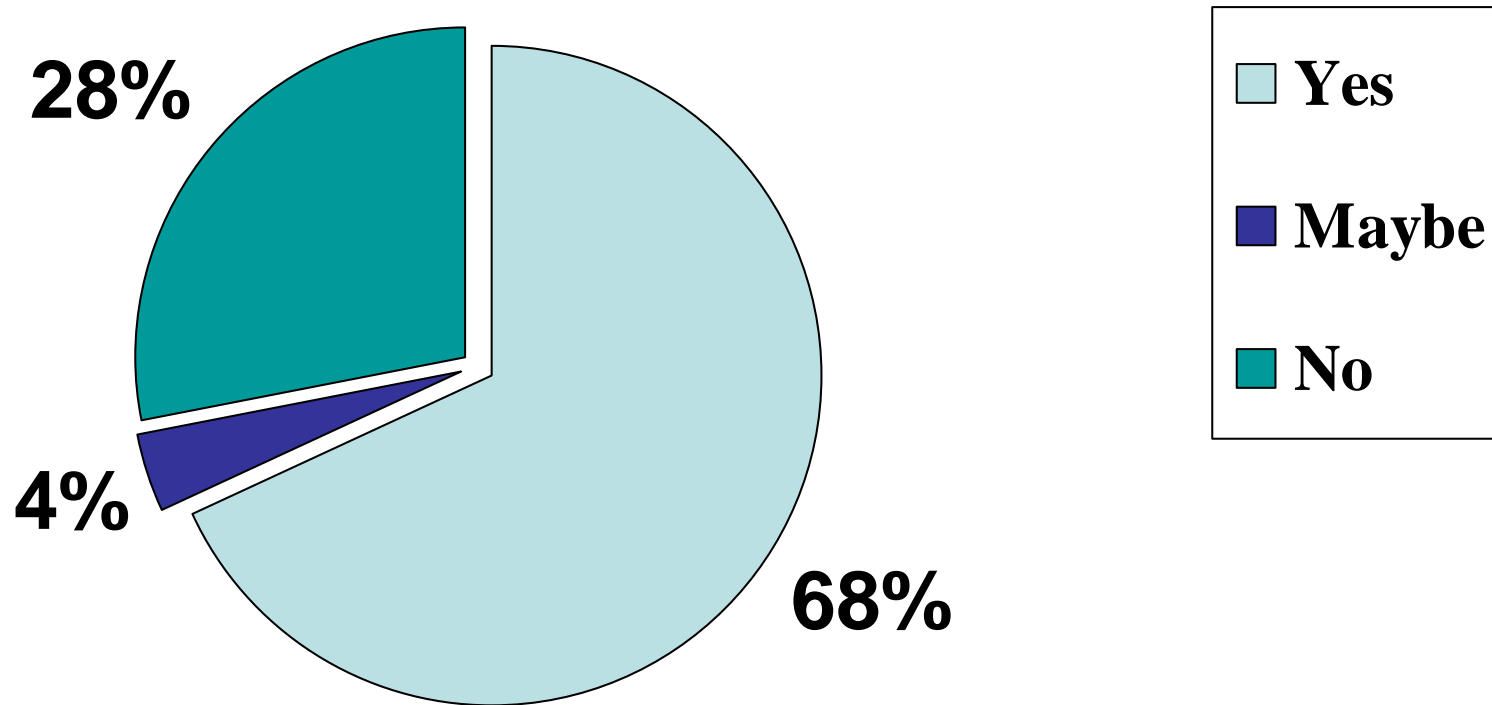
When is reporting made	By June 1	By June 30	By Dec 31
# of S/Ls reporting	21	2	1

7. Is there an S/L regulation that requires you to collect and/or submit HAP Emissions?



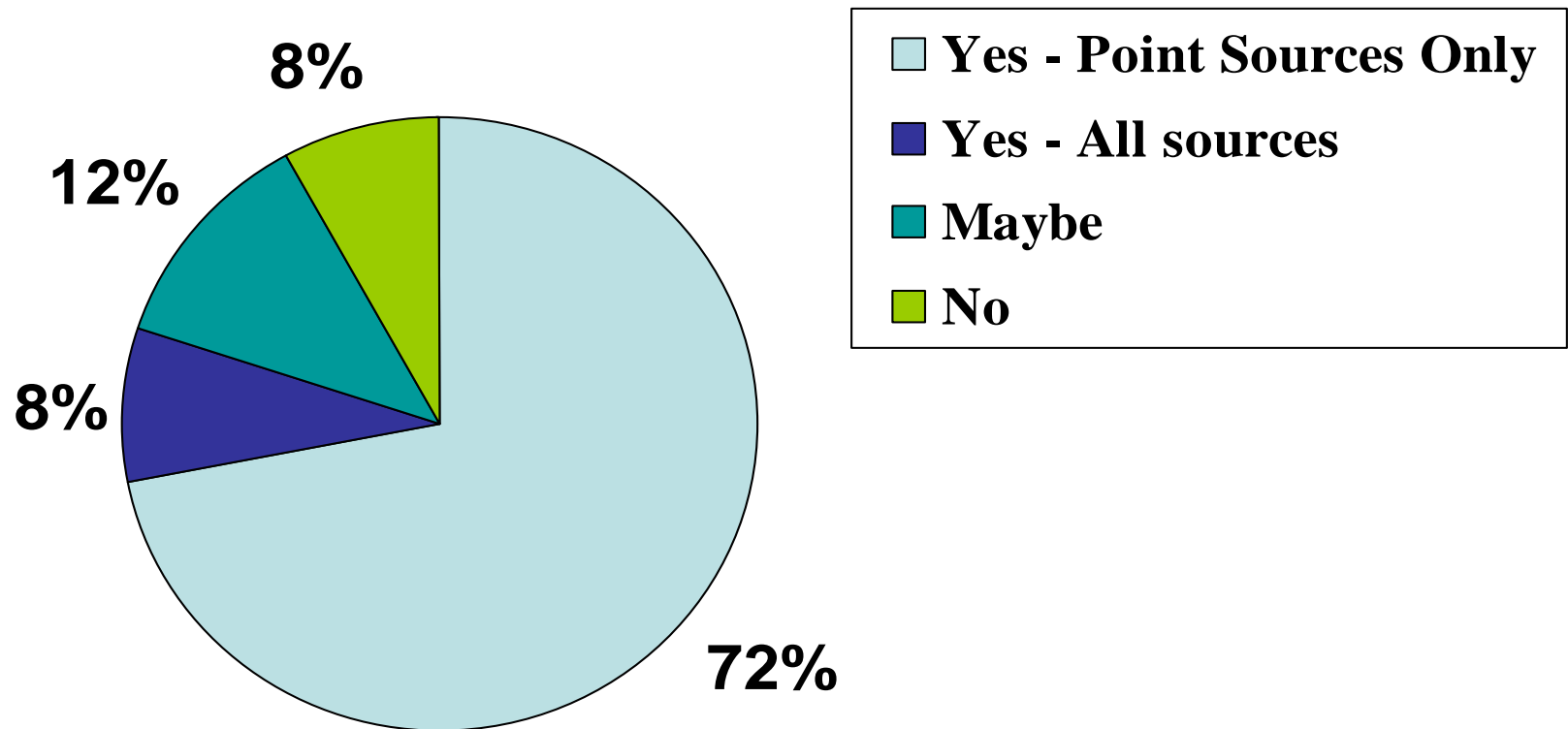
Air Toxics NEI reporting required by S/L regulation?	Yes	No
# of S/Ls	16	8

8. Will you be collecting emissions HAP data in 2008 and reporting to NEI?



S/Ls planning to collect & report 2008 emissions	Yes	Maybe	No
# of S/Ls	17	1	7

9. Will you be collecting and reporting HAP emissions data every year after 2008?



S/Ls Planning to collect/ report HAPs every year after 2008?	Yes – Point Sources	Yes - All Sources	Maybe	No
# of S/Ls	18	2	3	2

Now that we know where we stand, where do we go from here....?

For accurate and consistent HAP emissions inventory, the following suggestions have been put forward:

1. SLTs should collect and report the same number of HAPs (187), actual emissions, and from all sources (point, nonpoint, and mobile)
2. From 2008 forward, emissions should be collected/updated and reported by June 01 of the following year

Ultimately, a **mandatory program** requiring the collection and reporting of HAP emissions to NEI may be needed to make this happen in a broad and comprehensive way.